December 1964 and January 1965

Recent IBM Patents

December 1964

Catalytic Condensation of Polymers of Alpha-Alkenyl Ketones	A. H. Sporer and C. E. Allman	3,159,603
Universal Radix Adder	T. C. Broce	3,159,740
Clamp Circuit with a Shunt Unilateral Discharge Path	C. A. Bogdan, Jr., F. C. Fitzgerald and R. W. Jones	3,159,751
Digitalization System for Multi-Track Optical Character Sensing	D. C. Groce	3,159,815
Multi-Element Magnetic Transducer	J. J. Hagopian	3,159,822
Sheet Handling Apparatus	M. Fiehl	3,160,411
Manifold Forms	R. N. Eichorn and C. Holovka, Jr.	3,160,424
Optical Phase Angle Measuring Apparatus	H. Gamo	3,160,696
Control Apparatus Using Shockwave Energy	J. E. Wallace	3,160,723
Pluggable Reed Relay Package	L. A. Depew	3,160,724
Card Reading Device	J. M. Anderegg	3,160,739
Character Recognition Apparatus	P. H. Howard	3,160,853
Lattice-Type Character Recognition System	R. A. Gregory	3,160,854
Data Processing Machine	B. E. Phelps, J. J. Sochor and A. A. Kusnick	3,160,856
Data Transfer Control and Check Apparatus	D. I. Frush	3,160,857
Control System for Computer	L. R. Adams and A. F. Collins	3,160,858
Shift Registers	S. A. Butler	3,160,861
Ring Circuit	L. R. Adams	3,160,862
Magnetoresistive Storage Device	F. Partovi, C. Pettus and T. Young	3,160,863
Binary Coded Decimal to Binary Translator	R. A. Anderson and D. T. Brown	3,160,872
Variable Cycle Length in Chain Printer Operation	F. Saltz	3,161,126
Peltier Heating and Cooling of Substrates and Masks	I. Ames and R. B. DeLano, Jr.	3,161,542
Method for the Production of Thin Magnetic Layers with Reproducible and Stable Properties	H. J. Birkenbeil	3,161,946
Deformation Image Development Apparatus	H. C. Medley	3,162,104
Selective Removal of Impurities from Semiconductor Bodies	G. E. Brock and G. A. Silvey	3,162,557
Compact Transmission Line Consisting of Interleaved Conductor Strips and Shield Strips	J. J. Lentz	3,162,717
Magnetically Actuated Switching Device	P. Abramson and H. C. Fox	3,162,738
Magnetic Core Deca-Flip	T. Lode	3,162,768
Transistor Structure	R. F. Rutz	3,162,770
High Speed Transistor Amplifying Switch Having Isolating and Second Transistor Turn-Off Means	M. Hilsenrath and R. C. Paulsen	3,162,771
Electronic Packaging Device	L. J. Allen, E. J. Lorenz and W. J. Richardson	3,162,788
Error Correcting Code Device with Modulo-2 Adder and Feedback Means	J. E. Meggitt	3,162,837
Electronic Data Processing Machine Control	C. A. Andrews	3,162,840
Instruction Counter System	C. R. Holleran	3,162,841
Method of Fabricating Magnetic Core Arrays	E. Gessner	3,162,931
Bi-Directional Reel Clutch Drive	D. P. Darwin and D. K. Rex	3,163,373
Photoconductive Combinational Multiplier	R. I. Roth and H. Fleisher	3,163,749
Logical Transfer Circuit	R. C. Paulsen and A. A. Kahn	3,163,771
Pulse Divider Employing Threshold Device Triggered by Coincidence of Tryout Pulses and Synchronized RC-Delayed Pulses	R. A. Leightner	3,163,779
Phase Shift Binary Data Transmission System Including Carrier Transmission According to the Data	E. Hopner and C. M. Melas	3,163,821
Check Circuit for Rings with Overlapping Outputs	L. T. O'Connor, Jr.	3,163,847
Double Error Correcting System	N. M. Abramson	3,163,848
Record Scatter Variable	J. M. Austin, A. E. Cloutier and M. J. Mastrianni	3,163,850
Magnetic Core Half Adder	E. W. Bauer	3,163,852

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Electronic Component Packaging	R. I. Berge, A. B. Cistola and C. O. Wilson	3,164,749
Digital Data Detection Circuitry	J. E. Applequist	3,164,815
Data Transfer Device	F. Moring	3,165,260
Armature for Electro-Magnetic Relay	L. Hogan	3,165,607

Magnetic Switching Apparatus for Reducing Contact Bounce	J. E. Wallace	3,165,608
Analogue Decoder	J. L. Walsh	3,165,637
Electronic Circuit for Simulating Brain Neuron Characteristics Including Memory Means Producing a Self-Sustaining Output.	G. L. Clapper	3,165,644
Magnetostrictive Resonator Device with Sinusoidally Varying Exciting Field	M. Preisinger	3,165,653
Zener Diode Noise Generator with Feedback for Threshold Maintenance	G. L. Clapper	3,165,707
Character Recognition System	P. F. Eckelman, R. B. Hennis and R. H. Larson	3,165,717
Specimen Identification Apparatus	H. Fleisher	3,165,718
Matrix of Coincidence Gates Having Column and Row Selection	D. C. Mueller	3,165,719
Data Input Device with Formal Control	G. J. Laurer and C. D. Southard	3,165,720
Compensating Circuit for Delay Line	J. J. Kennedy and J. C. Rogers	3,165,721
Magnetic Information Transfer Device	W. Ghisler	3,165,722
Intelligence Conversion System	W. C. Dersch	3,166,640
Computer Program System	E. R. Marsh	3,166,668
Core Matrix Coded Decimal Parallel Adder Utilizing Propagated Carries	H. W. Cochrane	3,166,669
Asynchronous Data Processor	F. J. Sparacio	3,166,737
Parallel or Serial Memory Device	M. K. Haynes	3,166,739
Educational Device	W. R. Uttal	3,166,856
Hydrostatic Film Disc Stabilizer and Spacer	C. L. Barcia and H. A. Khoury	3,166,997
Chip Cell and Access Mechanism	J. M. Harker, D. D. Laine and J. J. Lynott	3,167,216
Process of Preparing Degenerately Doped Semiconductor Source Material	D. M. J. Compton	3,167,461
Process for Applying Insulation to Cables	T. D. Callinan	3,167,610
Open Loop and Closed Loop Integrator of an Analog Physical Variable	R. F. Boehm	3,167,644
Method and Apparatus for Performing Arithmetical Operations in the System of Residual Classes	W. Hoffmann and H. E. Muller	3,167,645
Apparatus for Processing Data Including an Instruction and Multiplicand-Divisor Register Employed on a Time Shared Basis	P. H. Giroux	3,167,646
Transmission Line Having Variably Biased Ferroelectric Dielectric, Useful as Variable Attenuator or Variable Delay Line	E. F. Hahn	3,167,728
Data Comparison System Utilizing a Universal Character	G. W. King and W. B. Strohm	3,167,740
Unambiguous Identification Systems	W. L. McDermid, H. E. Petersen and G. L. Shelton, Jr.	3,167,743
Specimen Identification Methods and Apparatus	J. Reines and G. L. Shelton, Jr.	3,167,746